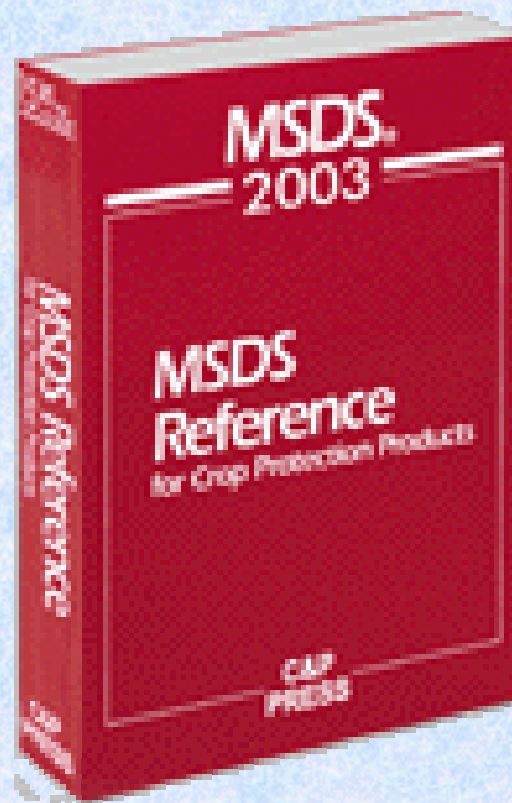
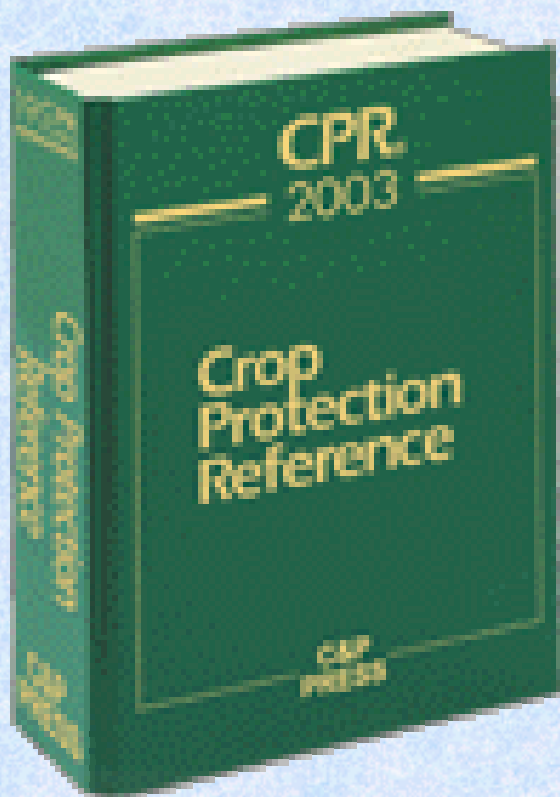


Herbicides for Managing Cheatgrass on Rangeland and Pastures



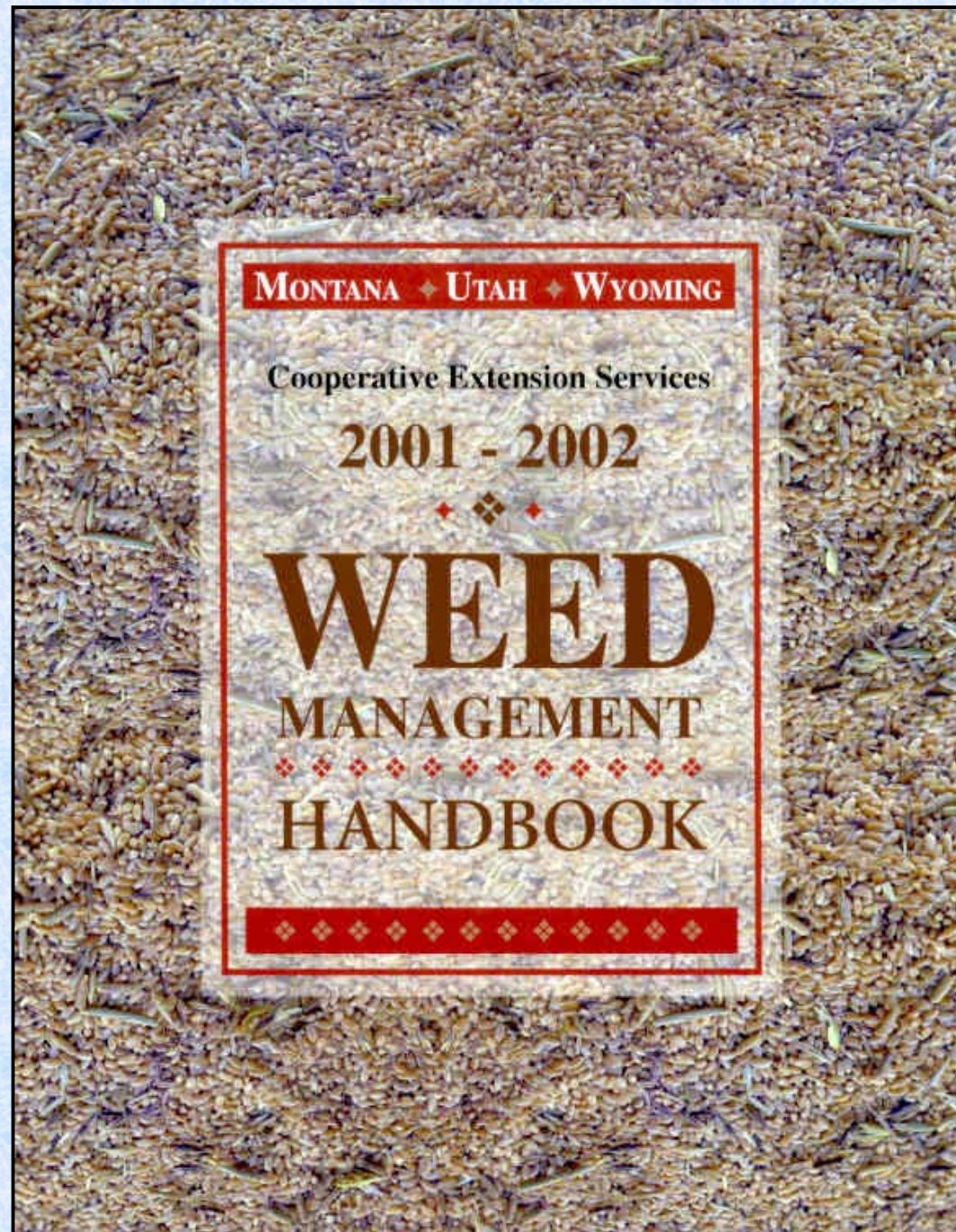
Internet Access to Free Labels and Material Safety Data Sheets



<http://www.greenbook.net>

MT/UT/WY Weed Management Handbook

- **Crops**
- **Range & Pasture**
- **Aquatics**
- **Rights-of-Way**
- **Problem Weeds**



Current Labels

- Plateau
- Roundup
- Gramoxone
- ~~Oust~~

Plateau (imazapic)

- **Pasture, range, CRP, non-crop**
- **Downy brome, medusahead, C. thistle,
l. spurge, R. knapweed, D. toadflax**
- **2 to 12 oz product / acre (2-6 oz, new seeding)**
- **MSO required (NIS for new seeding)**
- **Preplant, or to release established grasses**
- **Fall or Spring; pre-emergent to 5-lf seedling**
- **7-day hay pre-harvest restriction**

Roundup (glyphosate)

- **Pasture, range, non-crop**
- **Downy brome, medusahead, bulbous bluegrass, jointed goatgrass, etc.**
- **Pre-Plant:**
 - 12 to 16 oz product / acre
 - Max grass height = 6 inches
- **Established Pasture (WY):**
 - 8 to 16 oz product / acre
 - Early seedhead emergence
 - Repeat annually until seedbank depleted

Gramoxone (paraquat)

- **Native pastures**
- **Downy brome and other annual seedlings**
- **1.25 to 1.5 pints / acre**
- **Apply in spring after 90% node formation, but before full bloom**
- **No more than 3 inches of pasture growth**
- **Repeat annually until seedbank is depleted and perennial grasses are re-established**

Field Studies



Grass Control

(Wasco Co., OR – Spring Applied - % Control)

	<u>Downy Brome</u>	<u>Medusahead</u>
<u>Site I</u>		
Plateau 4 oz	50	80
Plateau 8 oz	90	100
<u>Site II</u>		
Plateau 4 oz	80	0
Plateau 8 oz	100	100

Source: BASF. Applied 3-7-00. Percent Control 5-1-00 (I) and 6-15-00 (II).

USU Studies

Best Results From Combinations of:

- **Burning**
 - to remove thatch and improve spray contact with seedlings and soil
- **Herbicide**
 - to control grassy & broadleaf weeds
 - that provide some residual control
- **Reseeding**
 - With competitive desirable species adapted to site

USU Study # SD9112

Burned: Aug 22, 1991

Sprayed: Oct 18, 1991
Mar 20, 1992

Planted: Mar 16, 1992



AUGUST 22



OCT 18 / MAR 20



MAR 16

SD9112

Herbicide: **1.5 pt Roundup +
0.1 oz Escort +
0.25% surfactant**

Grass: **4.6 lb Pubescent WG
10.9 lb Crested WG
(12-in row spacing)**



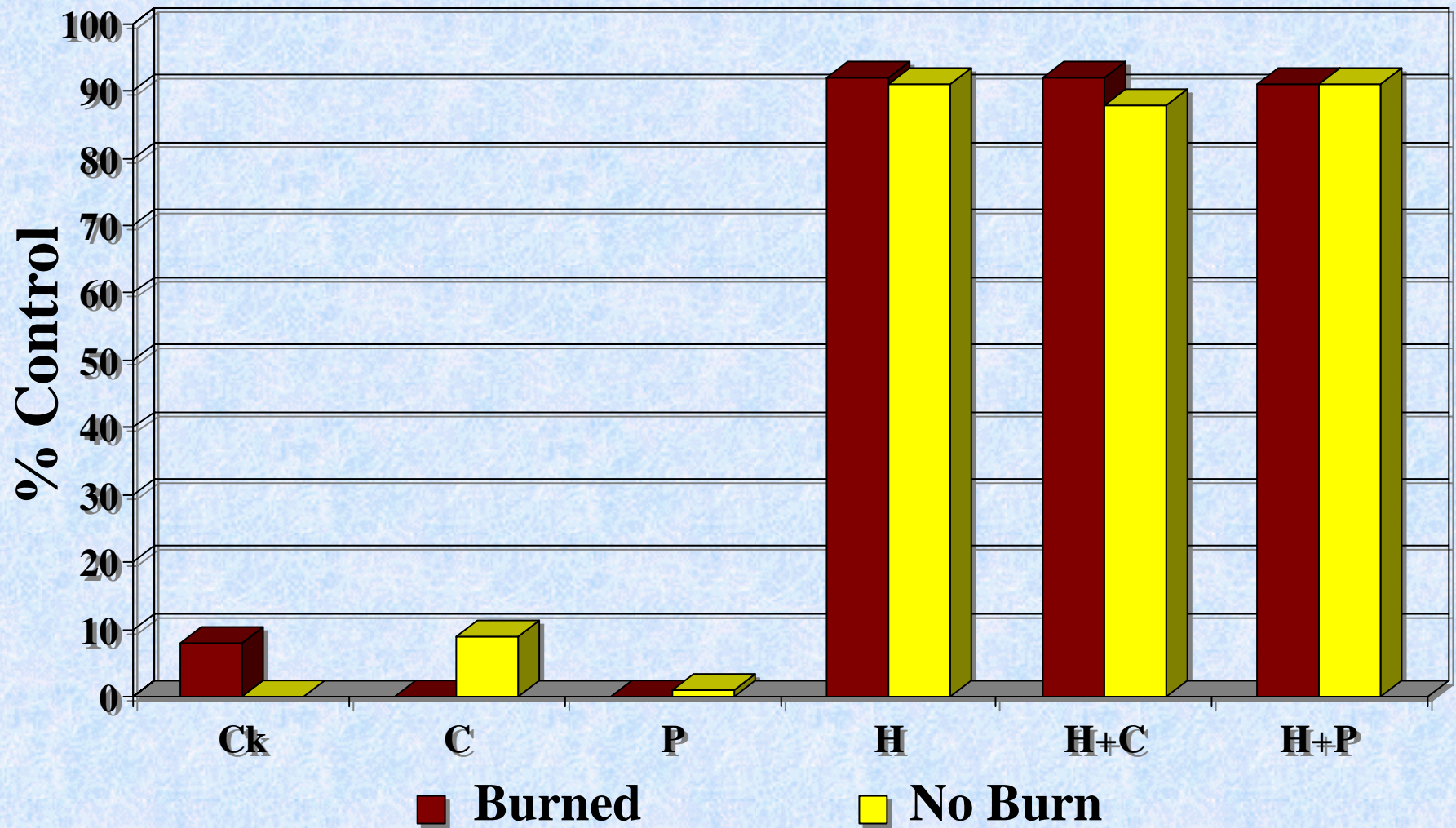
**BURNED
SEEDED**

**BURNED
ROUNDUP +
ESCORT (FALL)
SEEDED**

**8 WEEKS AFTER
SPRING SEEDING**

Grass Control

10 WAT



SD9112. H = herbicide, C = crested wheatgrass, P = pubescent wheatgrass

8 YRS AFTER TREATMENT

CHECK

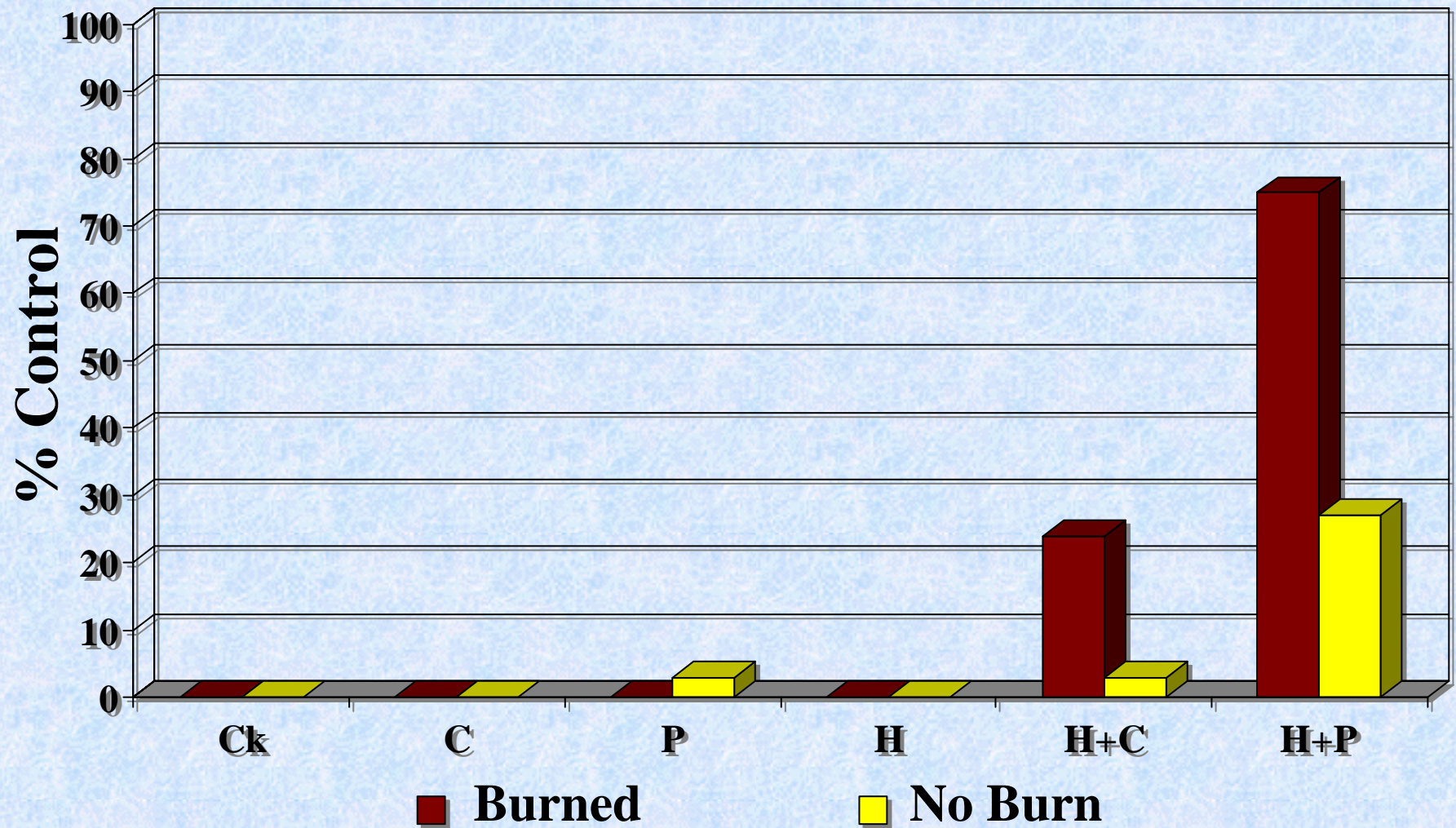
BURN + ROUNDUP + PUBESCENT

BURN + ROUNDUP + CRESTED



Grass Control

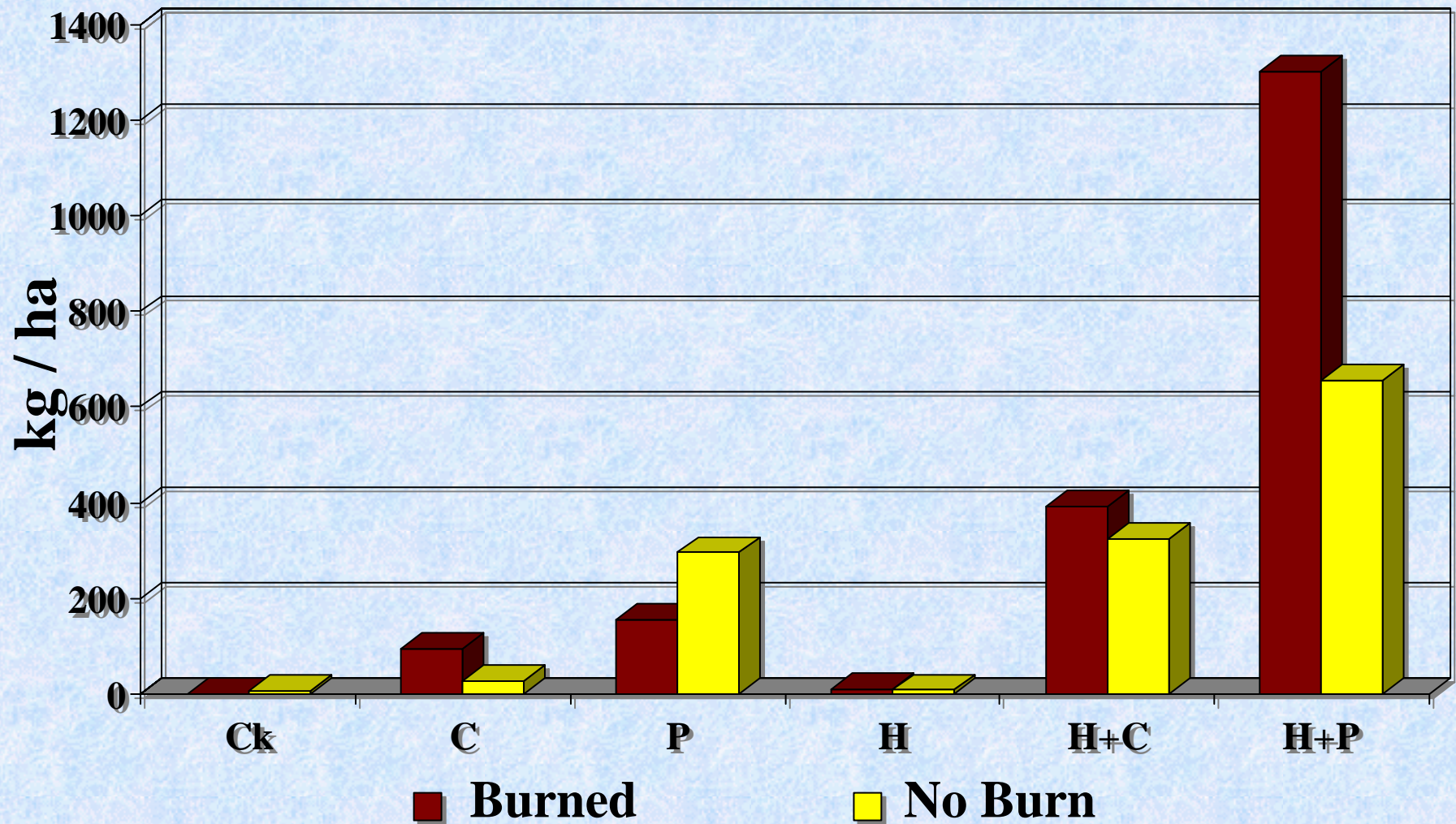
8 YAT



SD9112. H = herbicide, C = crested wheatgrass, P = pubescent wheatgrass

Forage Production

8 YAT



SD9112. H = herbicide, C = crested wheatgrass, P = pubescent wheatgrass

BEST TREATMENT

Burn: August 22, 1991

**Plant: Luna Pubescent WG
4.6 lb/acre PLS
Mar 16, 1992**

**Spray: Roundup + Escort
1.5 pt + 0.1 oz/acre
Mar 20, 1992**

USU Studies # SD0010-11

Burn: Fall 2000

**Spray: Fall 2000
Spring 2001**

**Plant: Fall 2000
Spring 2001
Fall 2001**

OCT 2000



NOV 2000 / MAR 2001



NOV 2000 / MAR 2001 / NOV 2001



Oust

0.75, 1.5 oz/A

Plateau

4, 8 oz/A

**Roundup
+ Escort**

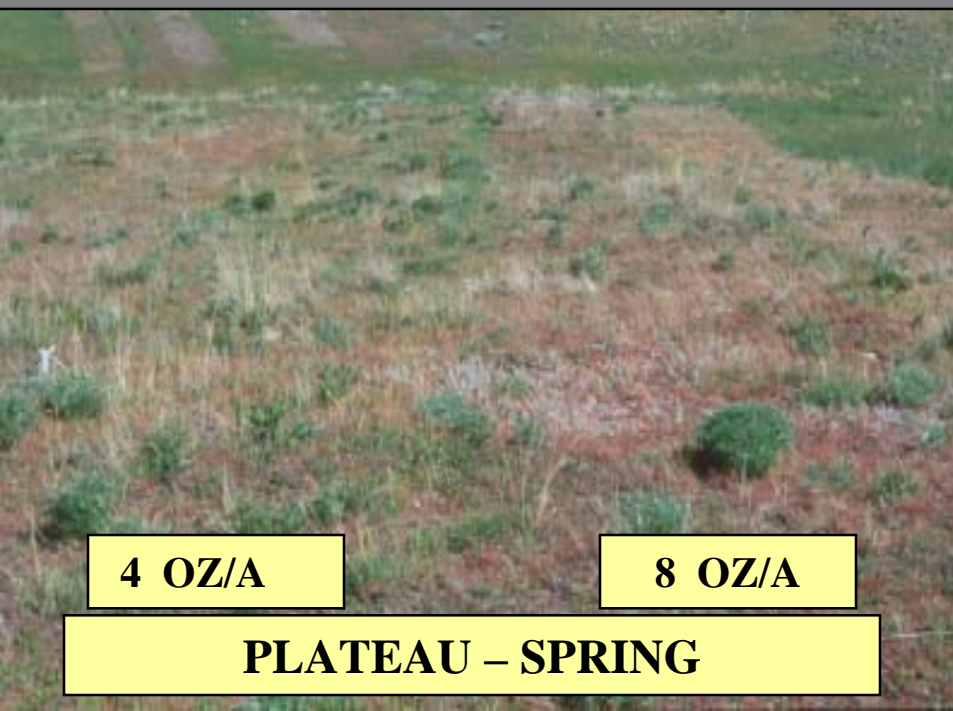
1 pt + .25 oz/A

0.25% v/v non-ionic surfactant added to all treatments

SD0011 – May 11, 2001



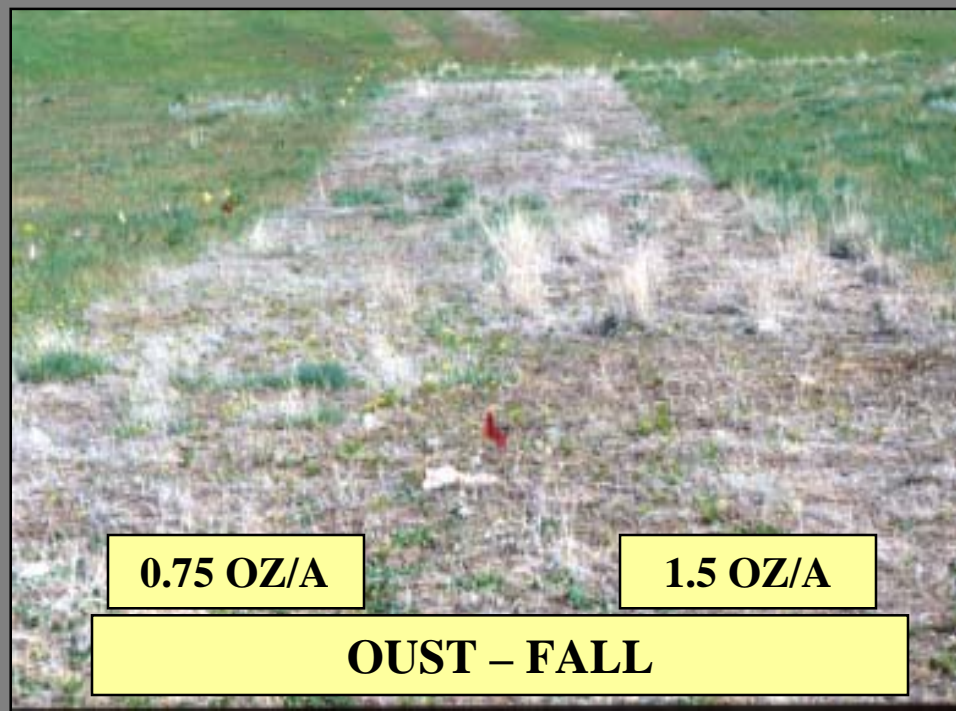
CHECK



4 OZ/A

8 OZ/A

PLATEAU – SPRING



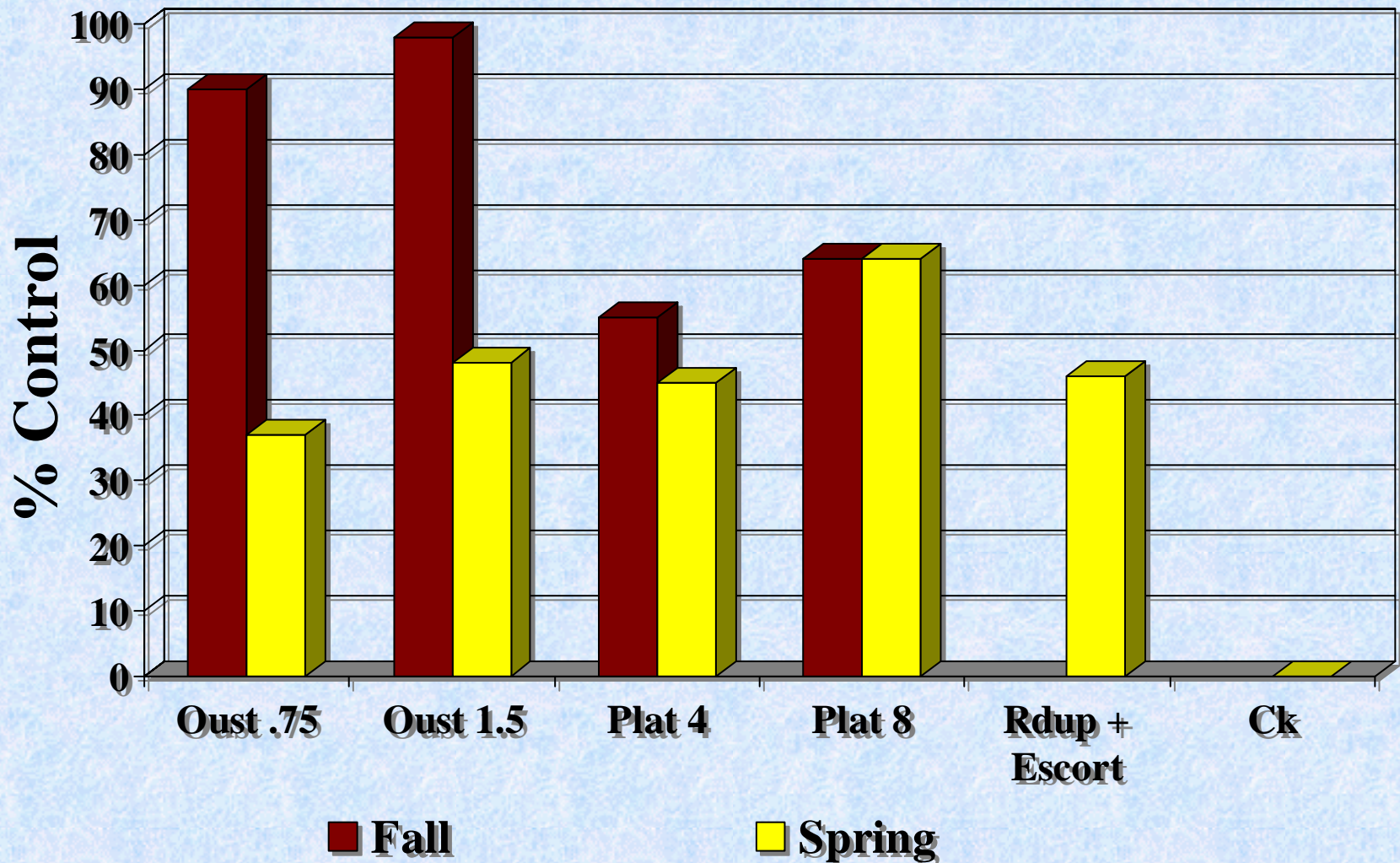
0.75 OZ/A

1.5 OZ/A

OUST – FALL

Grass Control

SD0011 – 11 Jun 01



East Site: Treated 31Oct 00 or 11 Apr 01. Seeded 8 Nov 00 or 29 Mar 01